

Inventor: Alex Lopez-Estrada
Title of Invention: Reduction of Address
Aliasing
Attorney Docket No.: 42339-193224
VENABLE

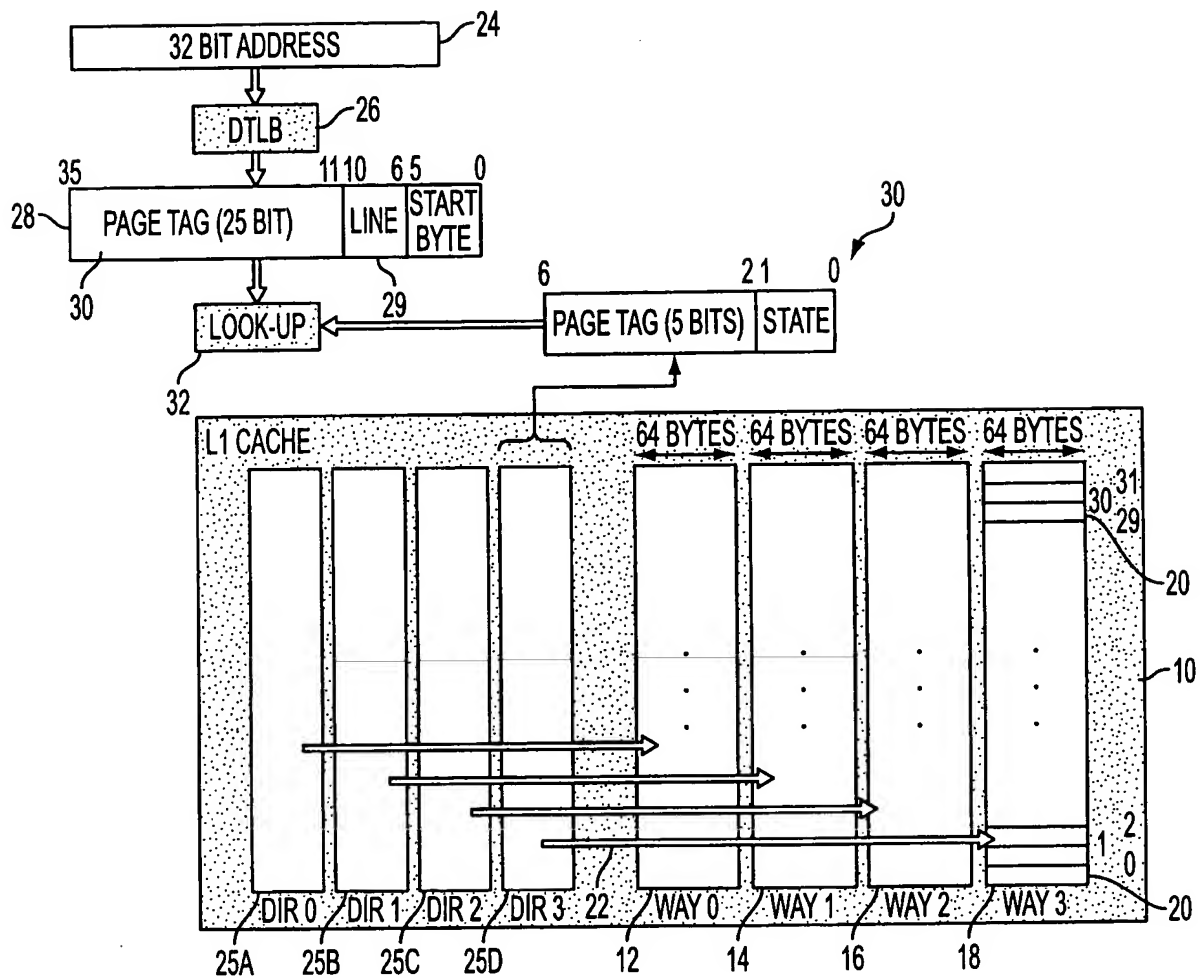


FIG. 1

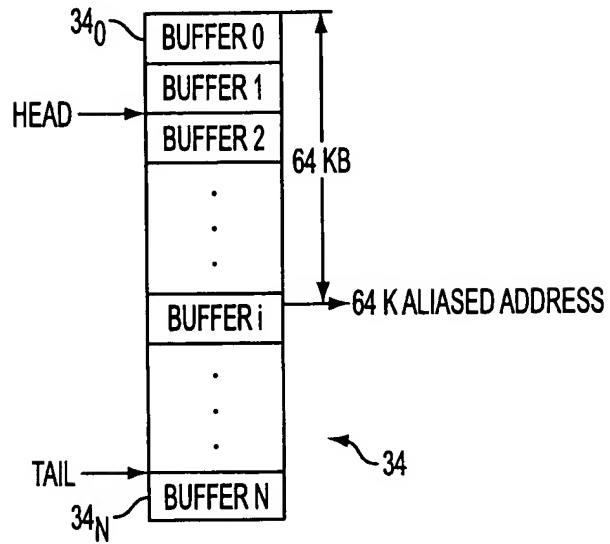


FIG. 2

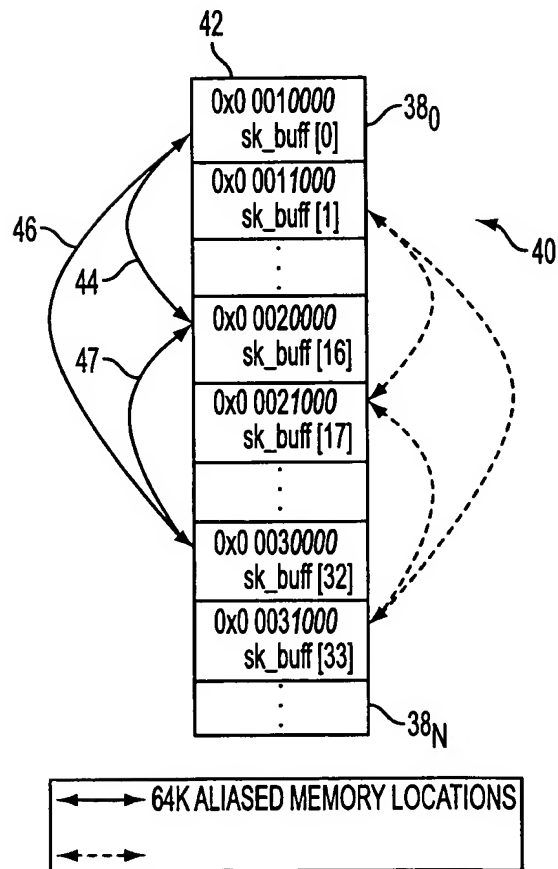


FIG. 3

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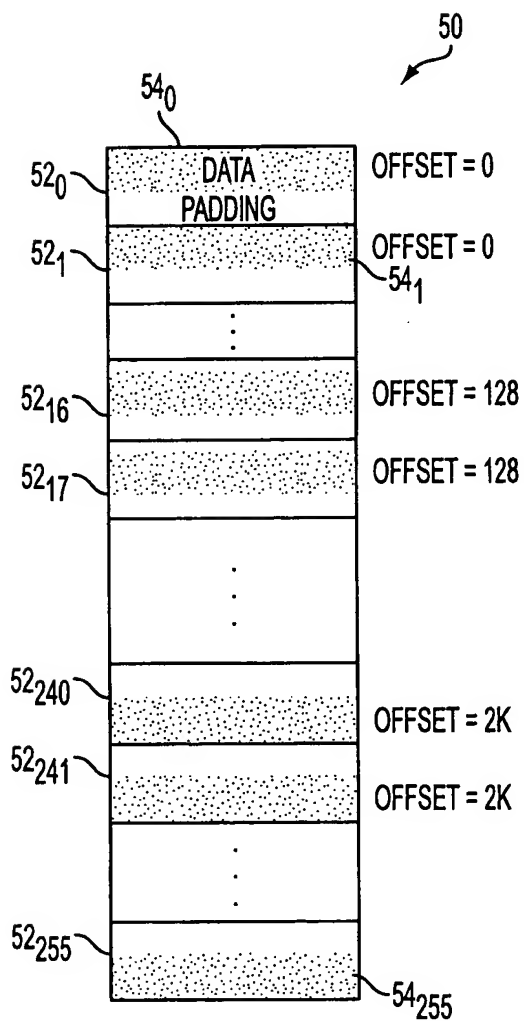


FIG. 4

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```
/* Allocation of skb's */
someSkbAllocationRoutine()
{
    /* Keep a counter for each of the 16 potential
     * alias locations for the case of 4K buffers.
     * The counters must intialized to 0 */
    static int aliasCounter[16];

    for( i=0; i<16; i++)
    {
        /* Allocate buffer of specified size */
        buffer = allocateSkb( size );

        /* The counter array is indexed by bits
         * 12 through 15 of the buffer address,
         * in the case of 4KB buffers */
        aliasCounterIdx= (buffer & 0x0000F000) >> 12;

        /* Offset by the counter amount and increment
         * the counter */
        skb[i]=buffer+ aliasCounter[aliasCounterIdx]*128;
        alias_counter[aliasCounterIdx]=
            (alias_counter[aliasCounterIdx]+1)&0x0000000F;
    }
}
```

FIG. 5

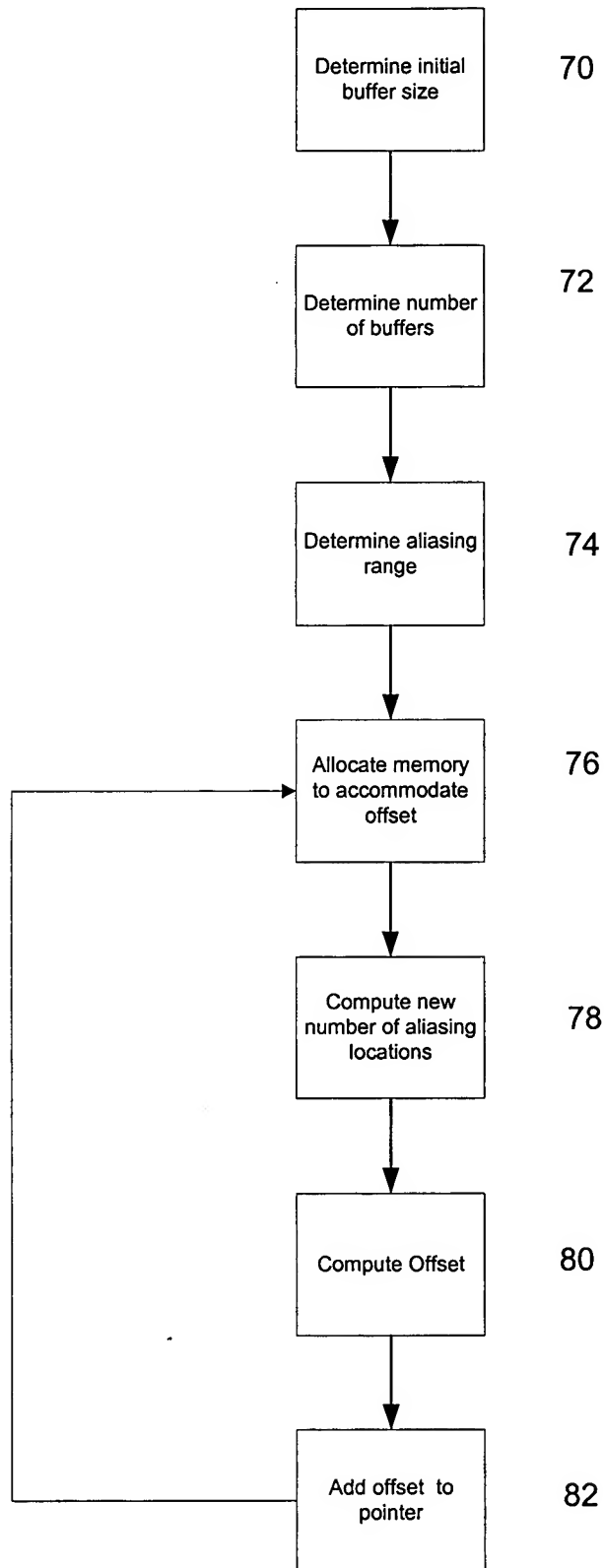


FIG. 6